9th Class 2017

Math (Science)	Group-I	Paper
Time: 20 Minutes	(Objective Type)	Max Marks: 1

Note: Four possible answers A, B, C and D to ea question are given. The choice which you think correct, fill that circle in front of that question wi Marker or Pen ink in the answer-book. Cutting filling two or more circles will result in zero mark that question.

1-1- $\begin{bmatrix} \sqrt{2} & 0 \\ 0 & \sqrt{2} \end{bmatrix}$ **is called _____ matrix.**

(a) Zero (b) Unit

(c) Scalar ✓ (d) Singular

2- $4^{2/3}$ **with radical sign is _____.**

(a) $\sqrt[3]{4^2}$ ✓ (b) $\sqrt{4^3}$

(c) $\sqrt[2]{4^3}$ (d) $\sqrt{4^6}$

3- **log e =** _____ **, where (e ≈ 2.718) .**

(a) 0 (b) ∞

(c) 1 (d) 0.4343 ✓

4- $(\sqrt{a} + \sqrt{b})(\sqrt{a} - \sqrt{b})$ **is equal to:**

(a) $a^2 + b^2$ (b) $a^2 - b^2$

(c) $a - b$ ✓ (d) $a + b$

5- **The square root of** $a^2 - 2a + 1$ **is _____.**

(a) $\pm(a + 1)$ (b) $\pm(a - 1)$ ✓

(c) $a - 1$ (d) $a + 1$

6- **H.C.F of** $x^2 - 5x + 6$ **and** $x^2 - x - 6$ **is _____.**

(a) $x - 3$ ✓ (b) $x + 2$

(c) $x^2 - 4$ (d) $x - 2$

7- **If x is no larger than 10, then:**

(a) $x < 10$ (b) $x > 10$

(c) $x \geq 8$ (d) $x \leq 10$ ✓

8- If $(x - 1, y + 1) = (0, 0)$, then (x, y) is:

(a) $(1, -1)$ ✓ (b) $(-1, 1)$

(c) $(1, 1)$ (d) $(-1, -1)$

9- Distance between the points $(0, 0)$ and $(1, 1)$ is:

(a) 0 (b) 1

(c) $\sqrt{2}$ ✓ (d) 2

10- Bisection means to divide into _____ equal parts.

(a) 2 ✓ (b) 3

(c) 4 (d) 5

11- Medians of a triangle are:

(a) Different (b) Concurrent ✓

(c) Equal (d) Same

12- The right bisectors of the sides of an acute triangle intersect each other _____ the triangle.

(a) Inside ✓ (b) Outside

(c) On the hypotenuse (d) On the base

13- A line segment has exactly _____ midpoint.

(a) Two (b) One ✓

(c) Three (d) Four

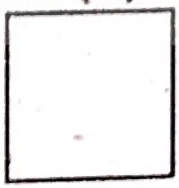
14- Area of the given 

figure is:

(a) 16 cm^2 ✓ (b) 8 cm

(c) 4 cm (d) 12 cm^2

15- One angle on the base of an isosceles triangle is 30°. What is the measure of its vertical angle _____?

(a) 90° (b) 30°

(c) 60° (d) 120° ✓